

## DH-Series Automatic Drop Hammer

### Collect Standard Penetration Test (SPT) blow counts with your Geoprobe® machine.

- Easy on / Easy off design!
- Conforms to ASTM Standards D1586-99.
- Consistent results with no human error.
- No cables or ropes needed for operation.
- Hammer cannot be “dry fired” (must be on a rod string) or fired in the horizontal position for operator safety.
- Hammer swings over hollow stem augers...no need to reposition the whole machine.
- Throw height can be adjusted within seconds.
- Use your Geoprobe® track machine for both environmental AND geotechnical projects.
- Used to perform Standard Penetration Test (SPT) which is the most common in situ geotechnical test in the U.S.
- SPT blow count results are used by engineers for obtaining strength and density properties of soil, designing foundations, and defining earthquake sensitive soils.
- Use the Geoprobe® SPT dual tube system with the automatic hammer for SPT testing.
- Mounting options for Geoprobe® 7730DT, 7720DT, 6620DT, 7822DT, & 8040DT machines.

#### Automatic Drop Hammer Specifications

Weight (hammer only - ASTM D1586)	140 lb.	63.5 kg
Weight (hammer unit)	470 lb.	213 kg
Height (transport)	63 in.	1,600 mm
Width (transport)	20 in.	508 mm
Depth (transport)	14.5 in.	368 mm
Cabinet Float/Travel Distance	31 in.	787 mm
Maximum Percussion Rate	60 blows per minute	
Hydraulic Flow Rate	13 gpm	50 Lpm
Hydraulic Pressure Rating	2,500 psi	172 bar

#### Drop Hammer Mounting Configurations

- The **DH100** Auto Drop Hammer configures to **6620DT, 7720DT, 7730DT Geoprobe® Machines.**
- The **DH103** Auto Drop Hammer configures to the **7822DT Geoprobe® machine**
- The **DH101** Auto Drop Hammer configures to the **8040DT Geoprobe® machine**



The DH103 Automatic Drop Hammer for the Geoprobe® 7822DT

#### Drop Hammer Operation

- Powered from auxiliary hydraulics on the probing machine
- Drops 140 pound (64 kg) weight 30 inches (762 mm)
- 60 blows per minute driving rate
- Accurate, repeatable results
- The anvil impact surface and all moving parts are enclosed for safety
- Easy on and off requires one pin to be pulled – no bolts to keep track of
- Hammer can be mounted or detached within minutes using the probe machine’s winch
- Hammer can safely be stored upright on storage base for small footprint and easy access

